



Karan Raj Sharma

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Education

Indian Institute of Technology, Guwahati

B. Tech. - Computer Science and Engineering

July 2019 - Current

Current CPI - 8.51

Experience

• Summer Internship at DevRev

May 2022 - July 2022

DevRev

- Developed and deployed an end-to-end **video call feature** in app, using **React TypeScript** and **Tailwind CSS** for frontend, **Cypress** for its testing and **Golang** for the backend.
- Used **100ms SDK** and employed various **UI/UX** features like draggability, minimizability, dominant speaker highlighting for the videocall feature.

• Member of Technical Staff (Part-time alongside College degree)

August 2022 - Present

DevRev

- Worked on various UI tasks on the DevRev Support Widget and the DevRev app using **React** and **TypeScript**, including various features like Rich Text Editor, Token Creation Page, App Credentials page, e2e tests for the support widget from scratch, refactored and extended generalizability of various components.

Projects

• Page Migration

March 2023

Dr. T. Venkatesh, Dept. of CSE, IIT Guwahati

<http://bit.ly/3Kaspjc>

- Implemented a **simulator** for simulating migration of pages between local and remote memories **from scratch**, with a **novel** hot page detection algorithm in remote memory, and LRU for victim page selection in local memory.
- Implemented the entire simulator in **C++**.

• Personal Website

October 2022

Personal Project

<https://karan-sharma.netlify.app/>

- Developed a responsive **React.js** and **Tailwind CSS** based resume website in my free time, to try and make a smooth UX with animations and transitions for all screen sizes.

• Interview Preparation Tracker

April 2021

Coding Club, IIT Guwahati

<https://git.io/JlJVp>

- Developed a **Node.js**-based web application project to help users prepare for interviews by practising and adding topics and questions, and read and write interview experiences.
- The user database was stored in the MongoDB database and multiple dependencies including Express.js and Mongoose were used.

• A* Pathfinding Visualizer

July 2021

Personal Project

<https://git.io/JlJwz>

- Developed a **python visualization** of the A* pathfinding algorithm using Pygame and TKinter, which allows users to pick a start and end location and view the process of finding the shortest path.

Technical Skills

- Programming Languages:** C/C++, Go, JavaScript, TypeScript, Python*, Java*
- Web Technologies:** HTML, CSS, React, Node.js, Tailwind CSS, Cypress
- Database Management:** MySQL, MongoDB
- Operating Systems:** Linux, Windows, Mac OS

* Elementary Proficiency

Key Courses Undertaken

- Computer Science:** Data Structures and Algorithms, Operating Systems, Computer Networks, Database Management, Machine Learning, Deep Learning
- Mathematics:** Probability Theory and Random Processes, Linear Algebra, Advanced Mathematics for Engineers

Achievements

- DevRev PPO:** Got pre-placement offer from DevRev on the basis of work done during internship.
- JEE (Adv) 2019:** Secured an All India Rank of **510** among **0.16 million** contesting candidates.
- JEE (Main) 2019:** Secured **99.77 percentile** among **1 million** contesting candidates.
- CodeChef:** Rating **2132**, **5* Coder** on CodeChef
- Codeforces:** Rating **1707 (Expert)** on Codeforces
- Google Kickstart 2022:** Secured a global rank of **352** among nearly **14k** contesting candidates in Round G.
- Google Code Jam 2022:** Secured a global rank of **381** among nearly **15k** contesting candidates in Round 1.
- CodeChef Lunchtime:** Secured a global rank of **70** among nearly **5k** contesting candidates.
- Codeforces Div 2:** Secured a global rank of **475** among **30k** contesting candidates.

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